

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/01641

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B21B27/08 B22D11/128 F27D3/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B21B B22D F27D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 100 24 556 A (THYSSEN KRUPP ENCOKE GMBH) 29 November 2001 (2001-11-29)	1-23
A	column 3, line 14 - line 26; figure 2	24-29
X	GB 2 046 386 A (AEROQUIP LTD)	1-23
A	12 November 1980 (1980-11-12)	24-29
X	page 1, line 122 - page 2, line 2; figure 1	1-23
A	PATENT ABSTRACTS OF JAPAN	24-29
X	vol. 2000, no. 25,	1
A	12 April 2001 (2001-04-12)	27
X	- & JP 2001 225155 A (SUMITOMO HEAVY IND LTD), 21 August 2001 (2001-08-21)	
A	abstract; figures 1,3	
X	DE 34 21 753 A (NAGEMA VEB K)	
A	18 April 1985 (1985-04-18)	
	figure 1	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

17 July 2003

Date of mailing of the international search report

06/08/2003

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Information on patent family members

International Application No

PCT/GB 03/01641

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